



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 17 85 14 75

Classification of the application (IPC):

A61K 48/00, C12N 9/22, C12N 15/11, C12N 15/113, C12N 15/62, C12N 15/63

Technical fields searched (IPC):

A61K, C12N

| DOCUMENTS CONSIDERED TO BE RELEVANT |   |                   |
|-------------------------------------|---|-------------------|
| Category                            | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim |
| T                                   | <b>AZIZ TAGHBALOUT ET AL:</b> "Enhanced CRISPR-based DNA demethylation by Casilio-ME-mediated RNA-guided coupling of methylcytosine oxidation and DNA repair pathways" <i>NATURE COMMUNICATIONS</i> , 20 September 2019 (2019-09-20), vol. 10, no. 1, DOI: 10.1038/s41467-019-12339-7, XP055680328<br>* the whole document *            | 1-15              |
| A                                   | <b>ALBERT W CHENG ET AL:</b> "Multiplexed activation of endogenous genes by CRISPR-on, an RNA-guided transcriptional activator system" <i>CELL RESEARCH - XIBAO YANJIU</i><br>GB, CN<br>27 August 2013 (2013-08-27), vol. 23, no. 10, DOI: 10.1038/cr.2013.122, ISSN: 1001-0602, pages 1163-1171, XP055299677<br>* the whole document * | 1-15              |
| A                                   | <b>XINGXING XU ET AL:</b> "A CRISPR-based approach for targeted DNA demethylation" <i>CELL DISCOVERY</i> , 03 May 2016 (2016-05-03), vol. 2, no. 1, DOI: 10.1038/celldisc.2016.9, page 12, XP055403308<br>* the whole document *  | 1-15              |
| A                                   | <b>SUMIYO MORITA ET AL:</b> "Targeted DNA demethylation in vivo using dCas9-peptide repeat and scFv-TET1 catalytic domain fusions" <i>NATURE BIOTECHNOLOGY</i><br>US<br>29 August 2016 (2016-08-29), vol. 34, no. 10, DOI: 10.1038/nbt.3658, ISSN: 1087-0156, pages 1060-1065, XP055459997<br>* the whole document *                    | 1-15              |

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

|                           |   |                                |
|---------------------------|---|--------------------------------|
| Place of search<br>Munich | Date of completion of the search<br>30 March 2020 | Examiner<br>Westphal-Daniel, K |
|---------------------------|---|--------------------------------|

### CATEGORY OF CITED DOCUMENTS

|   |  |
|---|--|
| X: particularly relevant if taken alone   | P: intermediate document   |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention                        |
| A: technological background   | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure   | D: document cited in the application                                   |
| & : member of the same patent family, corresponding document                    | L: document cited for other reasons                                    |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.